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LISTING OF THE CLAIMS

This listing of claims will replace all other versions of claims in the application.

1.   (Original): A data compression system, comprising:
       a scanning component which scans at least a portion of a transformed image, wherein the scan is performed substantially in a horizontal direction on a first section of the portion and in a vertical direction on a second section of the portion to enable improved data compression of the transformed image.

2.   (Original): The data compression system of claim 1, wherein the horizontal and vertical scan directions are performed *via* a contiguous scan of the respective sections to enable improved data compression of the transformed image.

3.   (Original): The data compression system of claim 1, further comprising a wavelet transform subsystem for transforming an image into wavelet coefficients *via* low pass and high pass filters applied to the image.

4.   (Original): The data compression system of claim 3, further comprising a quantizer for reducing stored data associated with the wavelet coefficients.

5.   (Original): The data compression system of claim 3, further comprising a reordering and blocking subsystem to provide a matrix of wavelet coefficients that are organized into at least one of low-low (LL), low-high (LH), high-low (HL), and high-high (HH) sub-bands.

6.   (Original): The data compression system of claim 5, wherein the LH sub-bands are scanned in the vertical direction and the HL sub-bands are scanned in the horizontal direction.

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7.   (Original): The data compression system of claim 5, wherein the LL and HH sub-bands are scanned in either the horizontal or the vertical direction.

8.   (Original): The data compression system of claim 5, wherein run length encoding is employed to encode the scanned coefficients.

9.   (Original): The data compression system of claim 8, wherein at least one of Golomb-Rice encoding and Arithmetic encoding is employed to encode the scanned coefficients.

10.   (Original): A method for providing a data compression system, comprising:

scanning at least a portion of a transformed image in substantially a horizontal direction on a first section of the portion; and

scanning in a vertical direction on a second section of the portion of the transformed image to enable improved data compression of the transformed image.

11.   (Original): The method of claim 10, wherein the horizontal and vertical scan directions are performed *via* a contiguous scan of the respective sections to enable improved data compression of the transformed image.

12.   (Original): The method of claim 10, further comprising:

transforming an image into wavelet coefficients *via* low pass and high pass filters applied to the image.

13.   (Original): The method of claim 12, further comprising:

reordering and blocking to provide a matrix of wavelet coefficients that are organized into at least one of low-low (LL), low-high (LH), high-low (HL), and high-high (HH) sub-bands.

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14.   (Original): The method of claim 13, wherein the LH sub-bands are scanned in the
       vertical direction and the HL sub-bands are scanned in the horizontal direction.

15.   (Original): The method of claim 13, wherein the LL and HH sub-bands are
       scanned in either the horizontal or the vertical direction.

16.   (Original): A data compression system, comprising:
              means for scanning at least a portion of a transformed image in
       substantially a horizontal direction on a first section of the portion; and
              means for scanning in a vertical direction on a second section of the
       portion of the transformed image to enable improved data compression of the
       transformed image.

17.   (Original): The data compression system of claim 16, wherein the horizontal and
       vertical scan directions are performed *via* a contiguous scan of the respective
       sections to enable improved data compression of the transformed image.

18.   (Original): The data compression system of claim 16, further comprising:
              means for transforming an image into wavelet coefficients *via* low pass
       and high pass filters applied to the image.

19.   (Original): The data compression system of claim 18, further comprising:
              means for reordering and blocking to provide a matrix of wavelet
       coefficients that are organized into at least one of low-low (LL), low-high (LH),
       high-low (HL), and high-high (HH) sub-bands.

20.   (Original): The data compression system of claim 19, wherein the LH sub-bands
       are scanned in the vertical direction and the HL sub-bands are scanned in the
       horizontal direction.

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21.   (Original): The data compression system of claim 19, wherein the LL and HH
        sub-bands are scanned in either the horizontal or the vertical direction.

22.   (Original): An image compression system, comprising:
                a wavelet transform subsystem for transforming an image into wavelet
        coefficients; and
                a scanning component which contiguously scans at least a portion of the
        transformed image, wherein the contiguous scan is performed substantially in a
        horizontal direction on a first section of the portion and in a vertical direction on a
        second section of the portion to enable improved data compression of the
        transformed image.

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